IN THE CLAIMS:

This Listing of the Claims replaces all prior versions and listings of the claims in the application.

- 1. (Original) A method for detecting the presence of anti-folate receptor (FRs) autoantibodies in a biological sample of a subject comprising:
 - a. acidifying said biological sample to a pH about 3.0 to pH about 5.0 to generate apo-FRs in said biological sample by dissociating anti-FRs autoantibodies and endogenous folate bound to said FRs,
 - b. removing the dissociated folate,
 - c. incubating said biological sample with labeled folic acid (FA) at a pH about 8.0 to pH about 8.9,
 - d. incubating said biological sample from Step c with labeled purified FRs, and
 - e. detecting and quantifying the formation of an immune complex between said anti-FRs autoantibodies present in said biological sample and said labeled purified FRs or previously labeled apo-FRs, wherein the presence of said immune complex indicates that said subject has anti-FRs autoantibodies.
- 2. (Original) A method for detecting the presence of an autoantibody that blocks the binding of folate to FRs in a biological sample from a subject, comprising:
 - a. obtaining a FRs-bound matrix,
 - b. dissociating folate bound to the FRs on said matrix and generating apo-FRs on said matrix by acidifying said matrix at a pH about 3.0 to pH about 5.0,
 - c. washing said matrix in the acid buffer to remove the dissociated folate from

Step b,

- d. resuspending said matrix in buffer, at a pH about 7.0 to pH about 8.6, and determining the folate binding capacity per unit volume by the binding of labeled folic acid,
- e. removing free folate from said biological sample,
- f. obtaining a control sample, and removing free folate from said control sample,
- g. incubating the suspended matrix from Step d with said biological sample from Step e in a buffer with a pH about 7.0 to pH about 8.6,
- h. incubating the suspended matrix from Step d with said control sample from Step f, in a buffer with a pH of about 7.0 to 8.6,
- i. washing said matrix from Step g and Step h,
- j. incubating said matrix from Step i with labeled folic acid,
- k. determining and quantifying the labeled folic acid binding capacity to said matrix from Step g and to said matrix from Step h, whereby a reduction of said labeled folic acid binding to said matrix in Step g compared to said labeled folic acid binding to said matrix from Step h indicates the presence of autoantibodies that block the binding of folate to FRs in said subject.
- 3. (Currently Amended) The method of Claims 1 [[and]] or 2, wherein said subject is human.
- 4. (Currently Amended) The method of Claims 1 [[and]] or 2, wherein said biological sample is serum.
- 5. (Currently Amended) The method of Claims 1 [[and]] or 2, wherein said FRs are detectably labeled.

- 6. (Original) The method of Claim 1, wherein said immune complex is detected by formation of a second immune complex between said immune complex of Claim 1 and an immunoglobulin-binding agent.
- 7. (Original) The method of Claim 6, wherein said immunoglobulin-binding agent is a protein A membrane suspension.
- 8. (Original) The method of Claim 6, wherein said immunoglobulin-binding agent is a detectably labeled second antibody
- 9. (Original) The method of Claim 1, wherein said immune complex is detected by precipitating said immune complex using ammonium sulfate, sodium sulfate, alcohol, or polyethylene glycol.
- 10. (Original) The method of Claim 2, wherein said matrix is placental membrane containing FRs from a human or homologous species.
- 11. (Original) A test kit for detecting autoantibodies to FRs in a biological sample from a subject comprising purified FRs from a human or homologous species, reagents for treating said biological sample, labeled folic acid, and at least one indicator which detects a complex of said purified FRs and said autoantibodies.
- 12. (Original) A test kit for detecting autoantibodies to FRs that block the binding of folate by the FRs in a biological sample from a subject comprising apo-FRs from a human or homologous species, reagents for treating said biological sample, labeled folic acid, and at least one indicator which detects said apo-FRs remaining in the reaction.
- 13. (Currently Amended) The test kit of Claims 11 [[and]] or 12, wherein said kit can also determine the titer of said blocking autoantibody.
- 14. (Currently Amended) The test kit of Claims 11 [[and]] or 12, wherein said kit can also determine the apparent association constant (K_a) of said blocking autoantibody to said FRs.

- 15. (Currently Ameded) The test kit of Claims 11 [[and]] or 12, wherein said FRs are bound to a matrix.
- 16. (Original) The test kit of Claim 15, wherein said matrix is a hydrophobic matrix.
- 17. (Original) The test kit of Claim 15, wherein said matrix is placental membrane containing FRs from a human or homologous species.
- 18. (Currently Amended) The test kit of Claims 11 [[and]] or 12, wherein said indicator is selected from the group consisting of enzyme, radioactive label, fluorescent marker, or biotin.
- 19. (Original) A method for diagnosing a folate-sensitive abnormality or disorder in a subject at risk of said abnormality or disorder comprising the detection of the presence of autoantibodies to FRs in a biological sample according to the methods of Claim 1 or 2.
- 20. (Original) A method for screening a woman at risk for having a neural tube defect-complicated pregnancy comprising detecting the presence of maternal autoantibodies to the FRs in a biological sample from said woman according to the methods of Claim 1 or 2.
- 21. (Currently Amended) A method for the prevention of folate-sensitive abnormalities or disorders in a subject comprising:
 - a. detecting the presence of autoantibodies to FRs in a biological sample from the subject according to the methods of Claim 1 [[and]] or 2, and
 - b. administering pharmacologic folate supplements to the subject.
- 22. (Currently Amended) The method of [[Claims 19-21]] Claim 19, wherein said folate-sensitive abnormality or disorder is selected from the group consisting of neural tube defects (NTDs), infertility, spontaneous abortion, male sterility, unsuccessful *in vitro* fertilization, neurologic disorders and impaired intestinal folate absorption.

- 23. (New) The method of claim 20, wherein wherein said folate-sensitive abnormality or disorder is selected from the group consisting of neural tube defects (NTDs), infertility, spontaneous abortion, male sterility, unsuccessful *in vitro* fertilization, neurologic disorders and impaired intestinal folate absorption.
- 24. (New) The method of claim 21, wherein wherein said folate-sensitive abnormality or disorder is selected from the group consisting of neural tube defects (NTDs), infertility, spontaneous abortion, male sterility, unsuccessful *in vitro* fertilization, neurologic disorders and impaired intestinal folate absorption.